

No 14.

D 5655

D 5672.

Last of P.I. cruise 1910.

507

✓
Dredge } No. 5655 Date, Dec. 18th, 1907
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot } 60 lbs.
Lead }
Turns 608 Cor'n Depth 608 fms.
Sdg. Cup Lucas Amt. Bot'm Sample Plentiful.
Character of Bottom Ggy M fine S.
Thermom. { Make n. 3. Cor'n { Instr. -1.8
 { No. 98744 { Stem.
Bottom Reading 40° Cor'd Temp. 39.2
Temp. Surf. { 84° Time 11:00 A } Air { 84°
 { 84° Time 11:20 A } { 84°
Density: Surf. _____ fms. _____
Wind: Direction Variable Force 2-3
Baromet. 29.94 Amt. of Clouds .4 State of Sea S
Weather hcz.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Gulf of Boni, Celebes
Tg Tabaka N. 7 E. Sabuandata
Position Lat. 3° 34' 10" S Long. 120° 50' 30"

Chart used: No. 3616 Ed'n _____

Drift: Direction S 45 E. Distance 1.5

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz; 2 wing
weights, 1 tail weight 2 glass
floats.

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Rohan Recorder H. W. Child

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A M. Down. Up. A M.

A M. Down. Up. A M.

10 14 30 10 26 30

0

10 30 20 11 53 40

15 30 25 40

100

34 10 10 00

16 25 24 50

200

38 05 46 20

17 20 24 10

300

41 00 43 00

18 20 23 20

400

43 45 39 30

19 20 22 30

500

46 25 36 00

20 10 21 30

600

50 00 32 20

10 20 26 10 21 20 608 700

700

53 30 28 45

800

56 35 25 00

900

11 00 30 11 20 30

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

72

Bay (w. Tan) 271 E

Tg Tabako 27 E

13 m

H-4936 ✓

Dredge No. 5655 Date, Dec 18, 1909Sdg. Mch. Lucas Reel S Shot 60 lbs.Turns 667 Cor'n - Depth 667 fms.Sdg. Cup Lucas Amt. Bot'm Sample cupfulCharacter of Bottom gy. M.Thermom. { Make W2 Cor'n { Instr. -
No. 98744 Stem. -Bottom Reading - Cor'd Temp. -Temp. Surf. { 86° Time 2:00 p. } Air { 86°
Time -Density: Surf. - fms. -Wind: Direction SSE Force 3Baromet. 29.81 Amt. of Clouds 3 State of Sea SWeather bczDirection and Force of Current { Surface -
Bottom -Tide -General Locality Gulf of Boni, CelebesTo Tobako N 47 E - Labuan datePosition 3° 28' S - 120° 45' 40" E.Chart used: No. 3616 Ed'n -Drift: Direction - Distance -Depth of Haul No haulApparatus and Rig used 12' Agassiz; 2 floats,
2 wing wts; 1 talbot and N 2
towing from port rail abt. 17 min.Time towing - h. - m.Remarks: Thermometer failed to re-
gister. - Sheave in boom out
of order. Had 353 fms. out, but
have all in. no dredging.
Changed Dr. No. to Hy. No.Deck Officer Mr. Johnson Recorder Frank

SOUNDING WIRE.

☒ M. Down. Up. ☒ M.

FMS.

DREDGING CABLE.

☒ M. Down. Up. ☒ M.

1	33	15	1	47	20	0	1	51	50	2	17	40	
	34	15		46	20	100		56	30		14	35	
	35	15		45	35	200		2	00	05	11	50	
	36	20		44	50	300		03	15		08	10	
	37	25		44	00	400	→	2	04	35	2	05	50
	38	35		43	05	500							
	39	30		42	10	600							
1	40	15	1	41	20	667							
						700							
						800							
						900							
						1000							
						1100							
						1200							
						1300							
						1400							
						1500							
						1600							
						1700							
						1800							
						1900							
						2000							
						2100							
						2200							
						2300							
						2400							
						2500							
						2600							
						2700							
						2800							
						2900							
						3000							
						3100							
						3200							
						3300							
						3400							
						3500							
						3600							
						3700							
						3800							
						3900							
						4000							
						4100							
						4200							
						4300							
						4400							
						4500							
						4600							
						4700							
						4800							
						4900							

1773

Day, (Wd), S, SE.

Tg Takako

Ar 476

9 m

Bay, (Wd), S S E.

Tg Tabako

2476

9 m

✓

Dredge } No. 5756 Date, Dec 19, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot 60 lbs.
Lead

Turns 484 Cor'n _____ Depth 484 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Plentiful

Character of Bottom gy M.

Thermom. { Make Ag Cor'n { Instr. -18
 { No. 98244 { Stem.

Bottom Reading 420 Cor'd Temp. 41.2

Temp. Surf. { 83° Time 8:17 A. } Air { 80°
 { 83° Time 8:43 A. } { 80°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 0-1

Baromet. 29.92 Amt. of Clouds 6 State of Sea 8

Weather bz

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Gulf of Boni, Celebes

Position Lat 3°17'40"S. Long. 120°36'45"

Chart used: No. 3616 B Ed'n _____

Drift: Direction S. 41 W. Distance 1.8

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz N.R., 2 glass floats, 2 wing weights, 1 tail weight.

Time towing _____ h. 5 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. C. Long
Mr. Hazard H. W. Fisher

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up. A. M.				A. M. Down.			Up. A. M.		
7	31	50	7	41	50	0	7	50	45	9	21	10
	32	50		40	50	100		55	20		17	20
	33	50		40	00	200		59	15		13	30
	34	50		39	15	300	8	02	30		09	25
	35	45		38	25	400		05	50		05	15
7	36	35	7	37	35	444 500		09	20	9	00	40
						600		12	45		56	10
						700	8	16	50		51	20
						750 800	8	22	00	8	42	30
						800 900	*8	37	30			
						1000						
						1100						
						1200						
						1300						
						1400	* Towed 13 min					
						1500	with 750 fms on					
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600	R. 67 W					
						3700	14.5					
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

S. 59 W.

Tg along

R. 67 W

14.5

✓

Dredge } No. 5657 Date, Dec. 19th, 1909
Hydrog. }
Sdg. Mch. Lucas Reel S Shot 60 lbs.
Turns 492 Cor'n Depth 492 fms.
Sdg. Cup Lucas Amt. Bot'm Sample Plentiful.
Character of Bottom Gy. M.
Thermom. { Make n. 3. Cor'n { Instr. -1.8
 { No. 98244 { Stem.
Bottom Reading 42.1° Cor'd Temp. 41.3
Temp. Surf. { 84° Time 11:08 A. } Air { 82°
 { 84° Time 11:28 A. } { 82°
Density: Surf. _____ fms. _____
Wind: Direction n. w. Force 1-
Baromet. 29.93 Amt. of Clouds .4 State of Sea S
Weather haz.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Gulf of Boni, Celebes
Tg. Alang n. 61 w. Conspicuous Mt.
Position Lat. 3° 19' 40" S Long. 120° 36' 30" E
Chart used: No. 3616 Ed'n _____
Drift: Direction S. 19 W. Distance 2.0
Depth of Haul Bottom
Apparatus and Rig used As before

Time towing h. 20 m.

Remarks: _____

Deck Officer Mr. Hazard Recorder H. W. C. Under

SOUNDING WIRE.					FMS.	DREDGING CABLE.							
A. M. Down.		Up.	A. M.			A. M. Down.		Up.	A. M.				
10	24	20	10	34	40	0	10	38	20	11	56	25	
	25	20		33	50	100		42	30		53	25	
	26	15		33	00	200		46	05		49	00	
	27	10		32	10	300		49	45		45	10	
	28	10		31	15	400		53	15		41	20	
10	29	05	10	30	05	492	500		57	00		37	40
						600		11	00	45		34	00
						700			05	05		30	15
						748	800	11	08	00	11	28	00
						900							
						1000							
						1100							
						1200							
						1300							
						1400							
						1500							
						1600							
						1700							
						1800							
						1900							
						2000							
						2100							
						2200							
						2300							
						2400							
						2500							
						2600							
						2700							
						2800							
						2900							
						3000							
						3100							
						3200							
						3300							
						3400							
						3500							
						3600							
						3700							
						3800							
						3900							
						4000							
						4100							
						4200							
						4300							
						4400							
						4500							
						4600							
						4700							
						4800							
						4900							

74

75

64 W.

Tg. Olang

Ch 61 Br

15.5

S. 64 W.

Tg. Olong

R 61 R
15.5

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }
Turns _____ 510 Cor'n _____ Depth _____ 510 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 29744 { Stem. _____
Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 85.0 Time 7:25p. } Air { 82.0
 { 85.0 Time 7:45p. } { 82.0

Density: Surf. _____ fms. _____

Wind: Direction _____ East Force _____ 2-3

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ S 35 E Distance _____

Depth of Haul _____ Bottom

Apparatus and Rig used _____ 12' pump & 5' net

Time towing _____ h. 20 m.

Remarks: _____
The net was towed in _____
_____ in _____
_____ the net was _____
_____ the net was _____
_____ the net was _____
_____ the net was _____
_____ the net was _____
_____ the net was _____
_____ the net was _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down.	Up.	M.
1 17 30	42	5
1 18 30	41	5
1 19 30	40	5
1 20 30	39	5
1 21 30	38	5
1 22 30	37	5
1 23 30	36	5
1 24 30	35	5
1 25 30	34	5
1 26 30	33	5
1 27 30	32	5
1 28 30	31	5
1 29 30	30	5
1 30 30	29	5
1 31 30	28	5
1 32 30	27	5
1 33 30	26	5
1 34 30	25	5
1 35 30	24	5
1 36 30	23	5
1 37 30	22	5
1 38 30	21	5
1 39 30	20	5
1 40 30	19	5
1 41 30	18	5
1 42 30	17	5
1 43 30	16	5
1 44 30	15	5
1 45 30	14	5
1 46 30	13	5
1 47 30	12	5
1 48 30	11	5
1 49 30	10	5
1 50 30	9	5
1 51 30	8	5
1 52 30	7	5
1 53 30	6	5
1 54 30	5	5
1 55 30	4	5
1 56 30	3	5
1 57 30	2	5
1 58 30	1	5
1 59 30	0	5

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
1 17 30	42	5
1 18 30	41	5
1 19 30	40	5
1 20 30	39	5
1 21 30	38	5
1 22 30	37	5
1 23 30	36	5
1 24 30	35	5
1 25 30	34	5
1 26 30	33	5
1 27 30	32	5
1 28 30	31	5
1 29 30	30	5
1 30 30	29	5
1 31 30	28	5
1 32 30	27	5
1 33 30	26	5
1 34 30	25	5
1 35 30	24	5
1 36 30	23	5
1 37 30	22	5
1 38 30	21	5
1 39 30	20	5
1 40 30	19	5
1 41 30	18	5
1 42 30	17	5
1 43 30	16	5
1 44 30	15	5
1 45 30	14	5
1 46 30	13	5
1 47 30	12	5
1 48 30	11	5
1 49 30	10	5
1 50 30	9	5
1 51 30	8	5
1 52 30	7	5
1 53 30	6	5
1 54 30	5	5
1 55 30	4	5
1 56 30	3	5
1 57 30	2	5
1 58 30	1	5
1 59 30	0	5

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 7 Date, , 190

Sdg. Mch. Reel Shot/Lead lbs.

Turns 702 Cor'n Depth 702 fms.

Sdg. Cup Lucas Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 98244 Cor'n { Instr. Stem.

Bottom Reading 39.6 Cor'd Temp. 39.

Temp. Surf. { Time 6:20 } Air { 63° 63°

Density: Surf. fms.

Wind: Direction unknown Force 0-1

Baromet. 29.90 Amt. of Clouds 20 State of Sea 28

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 33 20 S 121 10 W

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used 12' C

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. C. M.

M. Down. Up. M.

6 03 55 6 17 45

0

6 20 00 7 05 35

04 50 16 55

100

24 25 67 50

05 40 16 05

200

28 00 48 25

06 40 15 20

300

31 30 45 00

07 35 14 35

400

34 55 41 40

08 35 13 50

500

38 00 38 00

09 35 13 05

600

41 15 35 15

10 35 12 20

700

44 30 32 30

11 35 11 35

800

47 45 30 00

900

51 00 26 45

1000

54 15 23 30

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

384' Sounding (21) 15102

41111
Dredge } No. 7111 Date, Feb 12, 1901
Hydrog.

Sdg. Mch. Lucas Reel Lucas Shot 60 lbs.

Turns 515 Cor'n Depth 885 fms.

Sdg. Cup Lucas Amt. Bot'm Sample

Character of Bottom Cy M

Thermom. { Make V. 1.3 Cor'n { Instr. - 8
No. 0844 Stem.

Bottom Reading 39° Cor'd Temp. 38.2

Temp. Surf. { Time } Air {
Time }

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.91 Amt. of Clouds 3 State of Sea S

Weather haz.

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 32° 50' 49" 10"

Chart used: No. 3616 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

8	03	40	8	21	00	0
	04	40		20	05	100
	05	30		19	20	200
	06	20		18	40	300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

20 ft. net (10 ft. net) (10 ft. net)

Dredge } No. 660 Date, Dec. 20th, 1907

Sdg. Mch. _____ Reel _____ Shot & Lead _____ lbs.

Turns _____ Cor'n _____ Depth 612 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom (G. H. S.)

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 9 _____ { Stem _____

Bottom Reading 40° Cor'd Temp. 39.2

Temp. Surf. { 83° Time 10:06 A } Air { 83°
 { 83° Time 10:26 A } { 83°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-2

Baromet. 29.91 Amt. of Clouds 3 State of Sea S.

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

384' Sea Surface (S) 1560

Position 5° 36' S 120° 50' W

Chart used: No. 3616 BA Ed'n

Drift: Direction S Distance 1.8

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing h. 1 m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

07 45 9 20 45
19 55

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. Down. Up. M.

9 25 00 11 06 00
30 10 11 01 50

Dredge } No. 265 Date, Dec 20, 1902

Sdg. Mch. Reel Shot / Lead lbs.

Turns 180 Cor'n Depth 180 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading 51.2 Cor'd Temp. 50.5

Temp. Surf. { 83 Time 4:25 p. Air { 86

Density: Surf. fms.

Wind: Direction WSW Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Florida Bay

Position 24° 49' N - 120° 24' W

Chart used: No. 3616 C.P. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

Time towing h. m.

Remarks: No haul

Deck Officer Recorder

11-1023

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

04 20

06 45

05 00

05 30

15 55

34 45

4 24 10

4 26 45

✓
Dredge } No. 5 Date, , 19

Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }

Turns 211 Cor'n Depth 211 fms.

Sdg. Cup Lucas Amt. Bot'm Sample None in Cup

Character of Bottom

Thermom. { Make No. 98244 Cor'n { Instr. - 7
Stem.

Bottom Reading 49.5° Cor'd Temp.

Temp. Surf. { 63° Time 5:50 } Air { 53°
83° Time 6:30 }

Density: Surf. fms.

Wind: Direction S.W. Force 1

Baromet. Amt. of Clouds 4 State of Sea

Weather bc

Direction and Force of Current { Surface
Bottom

Tide

General Locality To Laikou 0.5

Position 48 20 S 17 18 W

Chart used: No. Ed'n

Drift: Direction West Distance 1.5 km

Depth of Haul Bottom

Apparatus and Rig used 12' C

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down.	Up.	M.
38 00	42 45	
38 55	42 00	
39 50	41 55	
40 00	41 00	211

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
49 30	43 45	
53 45	37 00	
57 50	33 15	
6 02 50	29 30	
6 05 50		

38 00 42 45

0

38 00 42 45

100

53 45 37 00

200

57 50 33 15

300

6 02 50 29 30

400

6 05 50

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

✓

Dredge } No. _____ Date, Jan 1, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.
Turns _____ Cor'n _____ Depth 10 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84.0 Time 7:20 P }
 { 83 Time 6:00 A } Air { 83

Density: Surf. _____ fms. _____

Wind: Direction Varia Force _____

Baromet. 29.94 Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality East of Cape Cod

Position 41° 43' N 71° 10' W

Chart used: No. 12 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing 10 h. 0 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. *200* Date, *July 26*, 19*09*

Sdg. Mch. *Lucas* Reel *Lucas* Shot/Lead *35* lbs.

Turns *200* Cor'n *—* Depth *600* fms.

Sdg. Cup *—* Amt. Bot'm Sample *—*

Character of Bottom *fine*

Thermom. { Make *Lucas* Cor'n { Instr. *7*
No. *9000* Stem. *—*

Bottom Reading *44°* Cor'd Temp. *43.3*

Temp. Surf. { *84°* Time *9:45a* } Air { *81°*
Time *10:02* }

Density: Surf. *—* fms. *—*

Wind: Direction *Variable* Force *1-2*

Baromet. *30.00* Amt. of Clouds *7* State of Sea *2*

Weather *Partly Cloudy*

Direction and Force of Current { Surface *—*
Bottom *—*

Tide *—*

General Locality *Off Jacksonville*

Position *31° 22' N - 118° 21' W*

Chart used: No. *112* Ed'n *—*

Drift: Direction *S 67 W* Distance *2.5 m*

Depth of Haul *Bottom*

Apparatus and Rig used *12' beam trawl*

1' otter beam trawl

Time towing *—* h. *21* m.

Remarks: *1st haul 12' beam trawl - 10 min. - 100 yds. of bottom mud, 100 yds. of water, 100 yds. of netting.*

Deck Officer *—* Recorder *—*

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

84

H, 1776 E.

Dredge } No. 515 Date, Jan 26, 1929
Hydrog. }

Sdg. Mch. Reel Shot/Lead lbs.

Turns 1008 Cor'n Depth 1008 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M.

Thermom. { Make No. 98244 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 2:10 } Air { 80°
0° Time 3:20 }

Density: Surf. 39° fms.

Wind: Direction Force

Baromet. Amt. of Clouds 9 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality No. Makassar

Position

Chart used: No. 2637 Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used

Time towing h. m.

Remarks: No haul

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 41 30	2 01 30		0	2 03 30	3 17 30	
41 30	39 35		100	07 10	33 35	
42 30	39 05		200	10 10	30 15	
43 40	38 20		300	15 10	47 10	
44 35	37 30		400	19 10	44 00	
45 35	36 40		500	22 55	41 00	
46 40	35 50		600	26 55	37 50	
47 50	34 55		700	30 20	34 35	
49 00	34 20		800	34 55	31 30	
01 30	33 40		900		28 25	
17 30	32 50		1000			
1 51 30	32 00		1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

85

Dredge } No. 166 Date, Jan 1, 1901

Sdg. Mch. _____ Reel _____ Shot _____ lbs.

Turns 77 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample 1 1/2

Character of Bottom _____

Thermom. { Make V. No. 98244 Cor'n { Instr. _____ Stem. _____

Bottom Reading 48.2° Cor'd Temp. 47.5

Temp. Surf. { 82° Time 9:33 Air { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 30.1 Amt. of Clouds 8 State of Sea _____

Weather b-c-j.

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. B.A. 2607 Ed'n _____

Drift: Direction _____ Distance 1.8 m

Depth of Haul 10

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down.			Up.			A. M.
8	36	40	8	42	40	
				41	30	
				40	40	
8			40	00	1272	300

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

M. Down.			Up.			A. M.
8	1	25	1	48	3	
	9	45				
				4		

Dredge } No. *111* Date, *Oct 11*, 19*06*

Sdg. Mch. *Lucas* Reel *Lucas* Shot *Lucas* lbs.

Turns *367* Cor'n *0* Depth *367* fms.

Sdg. Cup *Lucas* Amt. Bot'm Sample *0*

Character of Bottom *gy. s. sh.*

Thermom. { Make *N. 3.* Cor'n { Instr. *Lucas*
No. *98244* Stem.

Bottom Reading *42.4* Cor'd Temp. *41.7*

Temp. Surf. { *83* Time *11:00* } Air { *82.5*
Time *11:00*

Density: Surf. *1.024* fms.

Wind: Direction *SE* Force *1*

Baromet. *30.1* Amt. of Clouds *0* State of Sea *1*

Weather *b. c.*

Direction and Force of Current { Surface *SE 1*
Bottom *SE 1*

Tide *low*

General Locality *off Cape Cod*

Position *40° 11' N. 71° 11' W.*

Chart used: No. *111* Ed'n *111*

Drift: Direction *N. 34 W.* Distance *1.5*

Depth of Haul *Bottom*

Apparatus and Rig used *As before*

Time towing *1* h. *5* m.

Remarks:

Deck Officer *Lucas* Recorder *Lucas*

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
M. Down.	Up.		M.			M. Down.	Up.		M.	
52 00	9	59	00		0	10 02 45	11	06	30	
52 45		58	15		100	07 20	11	01	25	
53 30		57	30		200	11 20		58	15	
54 30		56	45		300	14 50		55	15	
55 00	9	56	00	367	400	18 25		52	05	
					500	21 45		48	35	
					575	25 30	10	45	15	
					700					
					800					
					900					
					1000					
					1100					
					1200					
					1300					
					1400					
					1500					
					1600					
					1700					
					1800					
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					2700					
					2800					
					2900					
					3000					
					3100					
					3200					
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					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

✓

Dredge } No. 764 Date, Dec 27, 1900
Hydrog. }

Sdg. Mch. Lucas Reel L Shot 600 lbs. Lead

Turns 901 Cor'n - Depth 901 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Shallow

Character of Bottom gy. S.

Thermom. { Make W. Cor'n { Instr. -
{ No. 98244 { Stem. -

Bottom Reading 139° Cor'd Temp. 38.2

Temp. Surf. { 63° Time 4:12 } Air { 81°
{ - Time - }

Density: Surf. - fms. -

Wind: Direction variable Force 1-2

Baromet. 29.84 Amt. of Clouds 9 State of Sea 8

Weather -

Direction and Force of Current { Surface -
{ Bottom -

Tide -

General Locality -

Position 118° 44' W.

Chart used: No. - Ed'n -

Drift: Direction N 47° E Distance 1.1 mi.

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

Time towing h. 1 m. 10

Remarks: Shallow water

Deck Officer

Recorder

11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

32	35	3	51	45	0	3	52	10	5	47	15
27	35		50	45	100						
34	30		49	35	200		04	10		41	10
35	30				300						
					400						
					500						
38	25		46	00	600		19	00		29	40
39	25				700						
					800						
41	30		45	00	900		29	35		20	15
					1000						
					1100		36	15		13	55
					1200		39	55		10	20
					1300		44	00		07	10
					1400		4	45	50	5	05
					1500						
					1600						
					1700						
					1800						
					1900						
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					3900						
					4000						
					4100						
					4200						
					4300						
					4400						
					4500						
					4600						
					4700						
					4800						
					4900						

Mammia

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

✓

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. Lucas Reel 5 Shot 60 lbs.
Turns 1181 Cor'n _____ Depth 1181 fms.
Sdg. Cup 1 Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 98244 { Stem. _____

Bottom Reading 39° Cor'd Temp. 38.2

Temp. Surf. { 82° Time 8:20 a. } Air { 82°
 { { { {

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-3

Baromet. 29.7 Amt. of Clouds 7 State of Sea 3

Weather haze

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n / _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

SOUNDING WIRE.

M. Down. | Up. | M.

3	51	35	14	55
	20		14	10

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0	23	50	40	00
100	28	10	36	50
200				
300				
400				
500				
600				
700				
800				00
900				50
1000				
1100				
1200				
1300				20
1400				00
1500				
1600				
1700				
1800				
1900				
2000				
2100				
2200				
2300				
2400				
2500				
2600				
2700				
2800				
2900				
3000				
3100				
3200				
3300				
3400				
3500				
3600				
3700				
3800				
3900				
4000				
4100				
4200				
4300				
4400				
4500				
4600				
4700				
4800				
4900				

91

77

V

Dredge } No. 941 Date, Nov 10, 1917
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 6 lbs.

Turns 960 Cor'n --- Depth 960 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 2.00

Character of Bottom gy. M.

Thermom. { Make Twp. Cor'n { Instr. ---
 { No. 95644 { Stem. ---

Bottom Reading 390 Cor'd Temp. 38.2

Temp. Surf. { 84° Time 1:00 } Air { 84°
 { 84° Time 2:30 } { 84°

Density: Surf. fms.

Wind: Direction N. Force 1-2

Baromet. 29.85 Amt. of Clouds 5 State of Sea 2

Weather fog

Direction and Force of Current { Surface ---
 { Bottom ---

Tide ---

General Locality ---

Position 5° 15' N. 115° W.

Chart used: No. 941 Ed'n 10

Drift: Direction 0 Distance 0

Depth of Haul ---

Apparatus and Rig used 12' Agassiz

Time towing h. 3 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	P. M.	
12 32	15	12 51	15	0	12 55	00	2 56	30
33	10	50	15	100	59	20	52	20
34	05	49	30	200	1 02	50	49	10
35	05	48	40	300	07	10	46	00
36	10	48	00	400	10	25	42	45
36	15	47	15	500				
37	20	46	30	600	18	30	36	20
38	25	45	40	700	21	25		
38	30			800	24	35	29	45
40	45	43	05	900	27	50	26	20
12 41	30	12 42	30	960	31	00	23	00
				1100				
				1200	38	30	16	25
				1300	41	25	13	00
				1400	1 45	30	2 08	30
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

✓

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot & _____ lbs.
Leads }
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____
Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { Time _____ { Air {
 { Time _____
Density: Surf. _____ fms. _____
Wind: Direction _____ Force _____
Baromet. _____ Amt. of Clouds _____ State of Sea _____
Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Makassar

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used 10'
used a surface

Time towing _____ h. 20 m.

Remarks: No fish

Deck Officer Mr. Howard Recorder Howard

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		M. Down.	Up.	M.			
			0	7	26	00	7	47	40
			10-100	7	26	30	7	46	30
			200						
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
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			1700						
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			2100						
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			2300						
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			2500						
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			2700						
			2800						
			2900						
			3000						
			3100						
			3200						
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			3600						
			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

Dredge } No. _____ Date, _____, 19 ____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot } lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks

The amt. of wire left on dredging reel 4685 fms. after subtraction of amts. lost from the original 6000.

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
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			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date,, 19...

Hydrog. }
Sdg. Mch. Reel Shot }
Lead } lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm
Sample

Character of
Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {
Time }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of
Clouds State of
Sea

Weather

Direction and Force { Surface
of Current. { Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			2500			
			2600			
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			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19 ____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm
Sample _____

Character of
Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of
Clouds _____ State of
Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date, , 19
Hydrog. }

Sdg. Mch. Reel Shot } lbs.
Lead }

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. _____ Date, _____, 19__
Hydrog. }

Sdg. Mch. *Reel* *Shot / Lead* *Lbs.*

Turns	Cor'n	Depth	fms.
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100		

<i>Sdg. Cup</i>	<i>Amt. Bot'm Sample</i>
1	10
2	10
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
11	10
12	10
13	10
14	10
15	10
16	10
17	10
18	10
19	10
20	10
21	10
22	10
23	10
24	10
25	10
26	10
27	10
28	10
29	10
30	10
31	10
32	10
33	10
34	10
35	10
36	10
37	10
38	10
39	10
40	10
41	10
42	10
43	10
44	10
45	10
46	10
47	10
48	10
49	10
50	10
51	10
52	10
53	10
54	10
55	10
56	10
57	10
58	10
59	10
60	10
61	10
62	10
63	10
64	10
65	10
66	10
67	10
68	10
69	10
70	10
71	10
72	10
73	10
74	10
75	10
76	10
77	10
78	10
79	10
80	10
81	10
82	10
83	10
84	10
85	10
86	10
87	10
88	10
89	10
90	10
91	10
92	10
93	10
94	10
95	10
96	10
97	10
98	10
99	10
100	10

Character of Bottom

Thermom. $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading _____ *Cor'd Temp.* _____

Temp. Surf.	Time	Air	-----
	Time		

Density: Surf. fms.

Wind: Direction Force

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
-----------------	---------------------------	-------------------------

Weather _____

Direction and Force of Current. { Surface
{ Bottom

Tide 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 10

General Locality _____

Position

Chart used: No. 1 Ed'n 1

Drift: Direction	Distance
------------------	----------

Depth of Haul

Apparatus and Rig used

Time towing *h.* *m.*

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
 Lead }
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { _____ Time _____ { Air {
 { _____ Time _____ {
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____

 Direction and Force of Current. { Surface _____
 { Bottom _____
 Tide _____

 General Locality _____

 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____

 Time towing _____ h. _____ m.
 Remarks: _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } *No.* *Date,*, 19..
Hydrog. }
Sdg. Mch. *Reel* *Shot* }
Lead } *lbs.*
Turns *Cor'n* *Depth* *fms.*
Sdg. Cup *Amt. Bot'm*
Sample
Character of
Bottom
Thermom. { *Make* *Cor'n* { *Instr.*
{ *No.* { *Stem.*
Bottom Reading *Cor'd Temp.*
Temp. Surf. { *Time* } *Air* {
{ *Time* }
Density: Surf. *fms.*
Wind: Direction *Force*
Baromet. *Amt. of* *State of*
Clouds *Sea*
Weather
.....
Direction and Force { *Surface*
of Current. { *Bottom*
Tide
.....
General Locality
.....
Position
Chart used: No. *Ed'n*
Drift: Direction *Distance*
Depth of Haul
Apparatus and Rig used
.....
..... *Time towing* *h.* *m.*
Remarks:
.....
.....

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date,, 19 ..
Hydrog. }

Sdg. Mch. Reel Shot }
Lead } lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm
Sample

Character of
Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of
Clouds State of
Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
--- M. Down.	Up.	--- M.		--- M. Down.	Up.	--- M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19__
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm
Sample _____

Character of
Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ }
 { Time _____ } Air {

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____

Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot }
 Lead } _____ lbs.
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm
 Sample _____
 Character of
 Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { Time _____ { Air {
 { Time _____ {
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____

 Direction and Force { Surface _____
 of Current. { Bottom _____
 Tide _____

 General Locality _____

 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____

 _____ Time towing _____ h. _____ m.
 Remarks: _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } lbs.
Leads }
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____
Thermom. { Make _____ Cor'n { Instr. _____
{ No. _____ { Stem. _____
Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { Time _____ } Air {
{ Time _____ }
Density: Surf. _____ fms. _____
Wind: Direction: _____ Force _____
Baromet. _____ Amt. of Clouds _____ State of Sea _____
Weather _____
Direction and Force of Current { Surface _____
{ Bottom _____
Tide _____
General Locality _____
Position _____
Chart used: No. _____ Ed'n _____
Drift: Direction _____ Distance _____
Depth of Haul _____
Apparatus and Rig used _____
Time towing _____ h. _____ m.
Remarks: _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. *Date*,, 19....
Hydrog. }

<i>Sdg. Mch.</i>	_____	<i>Reel</i>	<i>Shot</i>	<i>Lbs.</i>
			<i>Lead</i>	

Turns	Cor'n	Depth	fms.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Sdg. Cup	Amt. Bot'm Sample
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
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31	
32	
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67	
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82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Character of Bottom

Thermom. $\left\{ \begin{array}{l} \text{Makr} \\ \text{No.} \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$ -----

Bottom Reading _____ Cor'd Temp. _____

$$\text{Temp. Surf.} \left\{ \begin{array}{l} \text{Time} \\ \text{Time} \end{array} \right\} \text{Air} \left\{ \begin{array}{l} \text{Time} \\ \text{Time} \end{array} \right\}$$

Density: Surf. _____ fms. _____

Wind: Direction	Force
-----------------	-------

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
-----------------	---------------------------	-------------------------

Weather by Ted G. Barrett

Direction and Force of Current. $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$

Tide _____

General Locality

Position

Chart used: No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Ed'n 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Drift: Direction	Distance
------------------	----------

Depth of Haul.....

Apparatus and Rig used -----

Time towing _____ h. _____ m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs. _____

Turns _____ Cor'n _____ Depth _____ fms. _____

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ } Air {
 { Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ *Date,* _____, 19____
Hydrog. }

Sdg. Mch. *Reel* *Shot* } *Lg.* *Lbs.*

<i>Turns</i>	<i>Cor'n</i>	<i>Depth</i>	<i>fms.</i>
--------------	--------------	--------------	-------------

Sdg. Cup Amt. Bot'm Sample

Character of Bottom _____

Thermom. { Make -----
 { No. -----

Cor'n { Instr. -----
 { Stem. -----

Bottom Reading _____ Cor'd Temp. _____

$$\left. \begin{array}{c} \text{Temp. Surf.} \\ \text{Time} \end{array} \right\} \text{Air}$$

Density: Surf. _____ fms. _____

Wind: Direction	Force	...
-----------------	-------	-----

Baromet.	Amt. of Clouds	State of Sea
----------	----------------	--------------

Weather

<i>Direction and Force of Current.</i>	{	<i>Surface</i>
	}	<i>Bottom</i>

General Locality

Position

Chart used: No. _____ Ed'n _____

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date,, 19...
Hydrog. }

Sdg. Mch. Reel Shot }
Lead } lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm
Sample

Character of
Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air {
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of
Clouds State of
Sea

Weather

Direction and Force { Surface
of Current. { Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. Date,, 19..
 Hydrog. }
 Sdg. Mch. Reel Shot }
 Lead } lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm
 Sample
 Character of
 Bottom
 Thermom. { Make Cor'n { Instr.
 No. Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { Time } Air {
 Time }
 Density: Surf. fms.
 Wind: Direction Force
 Baromet. Amt. of State of
 Clouds Sea
 Weather
 Direction and Force { Surface
 of Current. { Bottom
 Tide
 General Locality
 Position
 Chart used: No. Ed'n
 Drift: Direction Distance
 Depth of Haul
 Apparatus and Rig used
 Time towing: h. m.
 Remarks:

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge, } No. _____ Date, _____, 19____
Hydrog., }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot & Lead</i>	<i>lbs.</i>
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Turns Cor'n Depth fms.

<i>Sdg. Cup</i>	<i>Amt. Bot'm Sample</i>
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Character of Bottom

Thermom. { Make
 { No.

Cor'n { Instr.
 { Strm

Bottom Reading Cor'd Temp.

Temp. Surf.	{	Time	{	dir
		Time		

Density: Surf. _____ fms. _____

Wind: Direction Force

Baromet.	Amt. of Clouds	State of Sea
30.00 30.10 30.20 30.30 30.40 30.50 31.00 31.10 31.20 31.30 31.40 31.50 32.00 32.10 32.20 32.30 32.40 32.50 33.00 33.10 33.20 33.30 33.40 33.50 34.00 34.10 34.20 34.30 34.40 34.50 35.00 35.10 35.20 35.30 35.40 35.50 36.00 36.10 36.20 36.30 36.40 36.50 37.00 37.10 37.20 37.30 37.40 37.50 38.00 38.10 38.20 38.30 38.40 38.50 39.00 39.10 39.20 39.30 39.40 39.50 40.00 40.10 40.20 40.30 40.40 40.50 41.00 41.10 41.20 41.30 41.40 41.50 42.00 42.10 42.20 42.30 42.40 42.50 43.00 43.10 43.20 43.30 43.40 43.50 44.00 44.10 44.20 44.30 44.40 44.50 45.00 45.10 45.20 45.30 45.40 45.50 46.00 46.10 46.20 46.30 46.40 46.50 47.00 47.10 47.20 47.30 47.40 47.50 48.00 48.10 48.20 48.30 48.40 48.50 49.00 49.10 49.20 49.30 49.40 49.50 50.00 50.10 50.20 50.30 50.40 50.50 51.00 51.10 51.20 51.30 51.40 51.50 52.00 52.10 52.20 52.30 52.40 52.50 53.00 53.10 53.20 53.30 53.40 53.50 54.00 54.10 54.20 54.30 54.40 54.50 55.00 55.10 55.20 55.30 55.40 55.50 56.00 56.10 56.20 56.30 56.40 56.50 57.00 57.10 57.20 57.30 57.40 57.50 58.00 58.10 58.20 58.30 58.40 58.50 59.00 59.10 59.20 59.30 59.40 59.50 60.00 60.10 60.20 60.30 60.40 60.50 61.00 61.10 61.20 61.30 61.40 61.50 62.00 62.10 62.20 62.30 62.40 62.50 63.00 63.10 63.20 63.30 63.40 63.50 64.00 64.10 64.20 64.30 64.40 64.50 65.00 65.10 65.20 65.30 65.40 65.50 66.00 66.10 66.20 66.30 66.40 66.50 67.00 67.10 67.20 67.30 67.40 67.50 68.00 68.10 68.20 68.30 68.40 68.50 69.00 69.10 69.20 69.30 69.40 69.50 70.00 70.10 70.20 70.30 70.40 70.50 71.00 71.10 71.20 71.30 71.40 71.50 72.00 72.10 72.20 72.30 72.40 72.50 73.00 73.10 73.20 73.30 73.40 73.50 74.00 74.10 74.20 74.30 74.40 74.50 75.00 75.10 75.20 75.30 75.40 75.50 76.00 76.10 76.20 76.30 76.40 76.50 77.00 77.10 77.20 77.30 77.40 77.50 78.00 78.10 78.20 78.30 78.40 78.50 79.00 79.10 79.20 79.30 79.40 79.50 80.00 80.10 80.20 80.30 80.40 80.50 81.00 81.10 81.20 81.30 81.40 81.50 82.00 82.10 82.20 82.30 82.40 82.50 83.00 83.10 83.20 83.30 83.40 83.50 84.00 84.10 84.20 84.30 84.40 84.50 85.00 85.10 85.20 85.30 85.40 85.50 86.00 86.10 86.20 86.30 86.40 86.50 87.00 87.10 87.20 87.30 87.40 87.50 88.00 88.10 88.20 88.30 88.40 88.50 89.00 89.10 89.20 89.30 89.40 89.50 90.00 90.10 90.20 90.30 90.40 90.50 91.00 91.10 91.20 91.30 91.40 91.50 92.00 92.10 92.20 92.30 92.40 92.50 93.00 93.10 93.20 93.30 93.40 93.50 94.00 94.10 94.20 94.30 94.40 94.50 95.00 95.10 95.20 95.30 95.40 95.50 96.00 96.10 96.20 96.30 96.40 96.50 97.00 97.10 97.20 97.30 97.40 97.50 98.00 98.10 98.20 98.30 98.40 98.50 99.00 99.10 99.20 99.30 99.40 99.50 100.00 100.10 100.20 100.30 100.40 100.50 101.00 101.10 101.20 101.30 101.40 101.50 102.00 102.10 102.20 102.30 102.40 102.50 103.00 103.10 103.20 103.30 103.40 103.50 104.00 104.10 104.20 104.30 104.40 104.50 105.00 105.10 105.20 105.30 105.40 105.50 106.00 106.10 106.20 106.30 106.40 106.50 107.00 107.10 107.20 107.30 107.40 107.50 108.00 108.10 108.20 108.30 108.40 108.50 109.00 109.10 109.20 109.30 109.40 109.50 110.00 110.10 110.20 110.30 110.40 110.50 111.00 111.10 111.20 111.30 111.40 111.50 112.00 112.10 112.20 112.30 112.40 112.50 113.00 113.10 113.20 113.30 113.40 113.50 114.00 114.10 114.20 114.30 114.40 114.50 115.00 115.10 115.20 115.30 115.40 115.50 116.00 116.10 116.20 116.30 116.40 116.50 117.00 117.10 117.20 117.30 117.40 117.50 118.00 118.10 118.20 118.30 118.40 118.50 119.00 119.10 119.20 119.30 119.40 119.50 120.00 120.10 120.20 120.30 120.40 120.50 121.00 121.10 121.20 121.30 121.40 121.50 122.00 122.10 122.20 122.30 122.40 122.50 123.00 123.10 123.20 123.30 123.40 123.50 124.00 124.10 124.20 124.30 124.40 124.50 125.00 125.10 125.20 125.30 125.40 125.50 126.00 126.10 126.20 126.30 126.40 126.50 127.00 127.10 127.20 127.30 127.40 127.50 128.00 128.10 128.20 128.30 128.40 128.50 129.00 129.10 129.20 129.30 129.40 129.50 130.00 130.10 130.20 130.30 130.40 130.50 131.00 131.10 131.20 131.30 131.40 131.50 132.00 132.10 132.20 132.30 132.40 132.50 133.00 133.10 133.20 133.30 133.40 133.50 134.00 134.10 134.20 134.30 134.40 134.50 135.00 135.10 135.20 135.30 135.40 135.50 136.00 1		

Weather _____

Direction and Force of Current. $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$

Title _____

General Locality

Position

Chart used: No. _____ Ed'n _____

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

	Time towing $\frac{1}{2}$	h	m
1	1.0	1.0	1.0
2	1.0	1.0	1.0
3	1.0	1.0	1.0
4	1.0	1.0	1.0
5	1.0	1.0	1.0
6	1.0	1.0	1.0
7	1.0	1.0	1.0
8	1.0	1.0	1.0
9	1.0	1.0	1.0
10	1.0	1.0	1.0
11	1.0	1.0	1.0
12	1.0	1.0	1.0
13	1.0	1.0	1.0
14	1.0	1.0	1.0
15	1.0	1.0	1.0
16	1.0	1.0	1.0
17	1.0	1.0	1.0
18	1.0	1.0	1.0
19	1.0	1.0	1.0
20	1.0	1.0	1.0
21	1.0	1.0	1.0
22	1.0	1.0	1.0
23	1.0	1.0	1.0
24	1.0	1.0	1.0
25	1.0	1.0	1.0
26	1.0	1.0	1.0
27	1.0	1.0	1.0
28	1.0	1.0	1.0
29	1.0	1.0	1.0
30	1.0	1.0	1.0
31	1.0	1.0	1.0
32	1.0	1.0	1.0
33	1.0	1.0	1.0
34	1.0	1.0	1.0
35	1.0	1.0	1.0
36	1.0	1.0	1.0
37	1.0	1.0	1.0
38	1.0	1.0	1.0
39	1.0	1.0	1.0
40	1.0	1.0	1.0
41	1.0	1.0	1.0
42	1.0	1.0	1.0
43	1.0	1.0	1.0
44	1.0	1.0	1.0
45	1.0	1.0	1.0
46	1.0	1.0	1.0
47	1.0	1.0	1.0
48	1.0	1.0	1.0
49	1.0	1.0	1.0
50	1.0	1.0	1.0
51	1.0	1.0	1.0
52	1.0	1.0	1.0
53	1.0	1.0	1.0
54	1.0	1.0	1.0
55	1.0	1.0	1.0
56	1.0	1.0	1.0
57	1.0	1.0	1.0
58	1.0	1.0	1.0
59	1.0	1.0	1.0
60	1.0	1.0	1.0
61	1.0	1.0	1.0
62	1.0	1.0	1.0
63	1.0	1.0	1.0
64	1.0	1.0	1.0
65	1.0	1.0	1.0
66	1.0	1.0	1.0
67	1.0	1.0	1.0
68	1.0	1.0	1.0
69	1.0	1.0	1.0
70	1.0	1.0	1.0
71	1.0	1.0	1.0
72	1.0	1.0	1.0
73	1.0	1.0	1.0
74	1.0	1.0	1.0
75	1.0	1.0	1.0
76	1.0	1.0	1.0
77	1.0	1.0	1.0
78	1.0	1.0	1.0
79	1.0	1.0	1.0
80	1.0	1.0	1.0
81	1.0	1.0	1.0
82	1.0	1.0	1.0
83	1.0	1.0	1.0
84	1.0	1.0	1.0
85	1.0	1.0	1.0
86	1.0	1.0	1.0
87	1.0	1.0	1.0
88	1.0	1.0	1.0
89	1.0	1.0	1.0
90	1.0	1.0	1.0
91	1.0	1.0	1.0
92	1.0	1.0	1.0
93	1.0	1.0	1.0
94	1.0	1.0	1.0
95	1.0	1.0	1.0
96	1.0	1.0	1.0
9			

Remarks: 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ *Date*, _____, 19__
Hydrog. }

Sdg. Mch. Reel Shot } lbs.

Turns	Cor'n	Depth	fms.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Sdg. Cup	Amt. Bot'm Sample
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Character of Bottom

Thermom. $\left\{ \begin{array}{l} \text{Make} \dots\dots\dots \\ \text{No.} \dots\dots\dots \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air { }

Density: Surf. fms.

Wind: Direction Force

Baromet.	Amt. of Clouds	State of Sea
30.1 30.2 30.3 30.4 30.5 30.6 30.7 30.8 30.9 31.0 31.1 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 32.0	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Weather

Direction and Force of Current.
 { Surface _____
 { Bottom _____

DOI: 10.1002/for

General Locality

Position

Chart used: No. _____ Ed'n _____

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing _____ h. _____ m.

Remarks:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
--- M. Down.	Up.	--- M.		--- M. Down.	Up.	--- M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Stg. Mch. Reel Shot }
Lead }

Turns	Cor'n	Depth	fms.
-------	-------	-------	------

Sdg. Cup	Amt. Bot'm Sample
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
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51	
52	
53	
54	
55	
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60	
61	
62	
63	
64	
65	
66	
67	
68	
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71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Character of Bottom

Thermom. $\left\{ \begin{array}{l} \text{Makr} \\ \text{No.} \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. {	Time -----	} Air {
	Time -----	

Density: Surf. . fms.

Wind: Direction. Force.

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
-----------------	---------------------------	-------------------------

Weather

Direction and Force of Current. { Surface
{ Bottom

Tide

General Locality

Position

Chart used: No. _____ Ed'n _____

<i>Drift: Direction</i>	<i>Distance</i>
-------------------------	-----------------

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer

Deck Officer *Recorder*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ *Date*, _____, 19____
Hydrog. }

<i>Sdg. Mch.</i>	<i>Reel</i>	<i>Shot</i> <i>Lead</i>	<i>Lbs.</i>
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Turns Cor'n Depth fms.

Sdg. Cup ----- Amt. Bot'm Sample -----

Character of Bottom

Thermom. { Make
 { No.

Cor'n { Instr.
 { Stem.

No. 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 Cor n } Stem. 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

Bottom Reading Cor'd Temp.

Temp. Surf.	Time	Air

Time $\left\{ \begin{array}{l} \text{year} \end{array} \right\}$

Density: Surf. fms.

<i>Wind: Direction</i>	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	<i>Force</i>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
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Baromet.	Amt. of Clouds	State of Sea
30.00 30.10 30.20 30.30 30.40 30.50 31.00 31.10 31.20 31.30 31.40 31.50 32.00 32.10 32.20 32.30 32.40 32.50 33.00 33.10 33.20 33.30 33.40 33.50 34.00 34.10 34.20 34.30 34.40 34.50 35.00 35.10 35.20 35.30 35.40 35.50 36.00 36.10 36.20 36.30 36.40 36.50 37.00 37.10 37.20 37.30 37.40 37.50 38.00 38.10 38.20 38.30 38.40 38.50 39.00 39.10 39.20 39.30 39.40 39.50 40.00 40.10 40.20 40.30 40.40 40.50 41.00 41.10 41.20 41.30 41.40 41.50 42.00 42.10 42.20 42.30 42.40 42.50 43.00 43.10 43.20 43.30 43.40 43.50 44.00 44.10 44.20 44.30 44.40 44.50 45.00 45.10 45.20 45.30 45.40 45.50 46.00 46.10 46.20 46.30 46.40 46.50 47.00 47.10 47.20 47.30 47.40 47.50 48.00 48.10 48.20 48.30 48.40 48.50 49.00 49.10 49.20 49.30 49.40 49.50 50.00 50.10 50.20 50.30 50.40 50.50 51.00 51.10 51.20 51.30 51.40 51.50 52.00 52.10 52.20 52.30 52.40 52.50 53.00 53.10 53.20 53.30 53.40 53.50 54.00 54.10 54.20 54.30 54.40 54.50 55.00 55.10 55.20 55.30 55.40 55.50 56.00 56.10 56.20 56.30 56.40 56.50 57.00 57.10 57.20 57.30 57.40 57.50 58.00 58.10 58.20 58.30 58.40 58.50 59.00 59.10 59.20 59.30 59.40 59.50 60.00 60.10 60.20 60.30 60.40 60.50 61.00 61.10 61.20 61.30 61.40 61.50 62.00 62.10 62.20 62.30 62.40 62.50 63.00 63.10 63.20 63.30 63.40 63.50 64.00 64.10 64.20 64.30 64.40 64.50 65.00 65.10 65.20 65.30 65.40 65.50 66.00 66.10 66.20 66.30 66.40 66.50 67.00 67.10 67.20 67.30 67.40 67.50 68.00 68.10 68.20 68.30 68.40 68.50 69.00 69.10 69.20 69.30 69.40 69.50 70.00 70.10 70.20 70.30 70.40 70.50 71.00 71.10 71.20 71.30 71.40 71.50 72.00 72.10 72.20 72.30 72.40 72.50 73.00 73.10 73.20 73.30 73.40 73.50 74.00 74.10 74.20 74.30 74.40 74.50 75.00 75.10 75.20 75.30 75.40 75.50 76.00 76.10 76.20 76.30 76.40 76.50 77.00 77.10 77.20 77.30 77.40 77.50 78.00 78.10 78.20 78.30 78.40 78.50 79.00 79.10 79.20 79.30 79.40 79.50 80.00 80.10 80.20 80.30 80.40 80.50 81.00 81.10 81.20 81.30 81.40 81.50 82.00 82.10 82.20 82.30 82.40 82.50 83.00 83.10 83.20 83.30 83.40 83.50 84.00 84.10 84.20 84.30 84.40 84.50 85.00 85.10 85.20 85.30 85.40 85.50 86.00 86.10 86.20 86.30 86.40 86.50 87.00 87.10 87.20 87.30 87.40 87.50 88.00 88.10 88.20 88.30 88.40 88.50 89.00 89.10 89.20 89.30 89.40 89.50 90.00 90.10 90.20 90.30 90.40 90.50 91.00 91.10 91.20 91.30 91.40 91.50 92.00 92.10 92.20 92.30 92.40 92.50 93.00 93.10 93.20 93.30 93.40 93.50 94.00 94.10 94.20 94.30 94.40 94.50 95.00 95.10 95.20 95.30 95.40 95.50 96.00 96.10 96.20 96.30 96.40 96.50 97.00 97.10 97.20 97.30 97.40 97.50 98.00 98.10 98.20 98.30 98.40 98.50 99.00 99.10 99.20 99.30 99.40 99.50 100.00 100.10 100.20 100.30 100.40 100.50 101.00 101.10 101.20 101.30 101.40 101.50 102.00 102.10 102.20 102.30 102.40 102.50 103.00 103.10 103.20 103.30 103.40 103.50 104.00 104.10 104.20 104.30 104.40 104.50 105.00 105.10 105.20 105.30 105.40 105.50 106.00 106.10 106.20 106.30 106.40 106.50 107.00 107.10 107.20 107.30 107.40 107.50 108.00 108.10 108.20 108.30 108.40 108.50 109.00 109.10 109.20 109.30 109.40 109.50 110.00 110.10 110.20 110.30 110.40 110.50 111.00 111.10 111.20 111.30 111.40 111.50 112.00 112.10 112.20 112.30 112.40 112.50 113.00 113.10 113.20 113.30 113.40 113.50 114.00 114.10 114.20 114.30 114.40 114.50 115.00 115.10 115.20 115.30 115.40 115.50 116.00 116.10 116.20 116.30 116.40 116.50 117.00 117.10 117.20 117.30 117.40 117.50 118.00 118.10 118.20 118.30 118.40 118.50 119.00 119.10 119.20 119.30 119.40 119.50 120.00 120.10 120.20 120.30 120.40 120.50 121.00 121.10 121.20 121.30 121.40 121.50 122.00 122.10 122.20 122.30 122.40 122.50 123.00 123.10 123.20 123.30 123.40 123.50 124.00 124.10 124.20 124.30 124.40 124.50 125.00 125.10 125.20 125.30 125.40 125.50 126.00 126.10 126.20 126.30 126.40 126.50 127.00 127.10 127.20 127.30 127.40 127.50 128.00 128.10 128.20 128.30 128.40 128.50 129.00 129.10 129.20 129.30 129.40 129.50 130.00 130.10 130.20 130.30 130.40 130.50 131.00 131.10 131.20 131.30 131.40 131.50 132.00 132.10 132.20 132.30 132.40 132.50 133.00 133.10 133.20 133.30 133.40 133.50 134.00 134.10 134.20 134.30 134.40 134.50 135.00 135.10 135.20 135.30 135.40 135.50 136.00 1		

Weather

Direction and Force of Current.	{	Surface
		Bottom

of Current. Bottom

Vide _____

General Locality

Position

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul

Apparatus and Rig used

Time towing _____ h. _____ m.

Remarks:

Week Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
 Hydrog }
 Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
 Lead }
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } { _____
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____

 Direction and Force { Surface _____
 of Current. { Bottom _____
 Tide _____

 General Locality _____

 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____

 _____ Time towing _____ h. _____ m.
 Remarks: _____

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
				0				
				100				
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } *No.* _____ *Date,* _____, 19____
Hydrog. }
Sdg. Mch. _____ *Reel* _____ *Shot* } _____ *lbs.*
Lead }
Turns _____ *Cor'n* _____ *Depth* _____ *fms.*
Sdg. Cup _____ *Amt. Bot'm* _____
Sample _____
Character of _____
Bottom _____
Thermom. { *Make* _____ *Cor'n* { *Instr.* _____
{ *No.* _____ { *Stem.* _____
Bottom Reading _____ *Cor'd Temp.* _____
Temp. Surf. { _____ *Time* _____ } *Air* {
{ _____ *Time* _____ }
Density: Surf. _____ *fms.* _____
Wind: Direction _____ *Force* _____
Baromet. _____ *Amt. of* _____ *State of* _____
Clouds _____ *Sea* _____
Weather _____
Direction and Force { *Surface* _____
of Current. { *Bottom* _____
Tide _____

General Locality _____

Position _____
Chart used: No. _____ *Ed'n* _____
Drift: Direction _____ *Distance* _____
Depth of Haul _____
Apparatus and Rig used _____

Time towing _____ *h.* _____ *m.* _____
Remarks: _____

Deck Officer _____ *Recorder* _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.

Up.

M.

M. Down.

Up.

M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge { No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot { _____ lbs.
 Lead }
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____
 Direction and Force { Surface _____
 of Current. { Bottom _____
 Tide _____
 General Locality _____
 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____
 Time towing _____ h. _____ m.
 Remarks: _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. *Reel* *Shot* } *Lbs.*
Lead }

Turns	Cor'n	Depth	fms.
1		10	10
2		20	20
3		30	30
4		40	40
5		50	50
6		60	60
7		70	70
8		80	80
9		90	90
10		100	100
11		110	110
12		120	120
13		130	130
14		140	140
15		150	150
16		160	160
17		170	170
18		180	180
19		190	190
20		200	200
21		210	210
22		220	220
23		230	230
24		240	240
25		250	250
26		260	260
27		270	270
28		280	280
29		290	290
30		300	300
31		310	310
32		320	320
33		330	330
34		340	340
35		350	350
36		360	360
37		370	370
38		380	380
39		390	390
40		400	400
41		410	410
42		420	420
43		430	430
44		440	440
45		450	450
46		460	460
47		470	470
48		480	480
49		490	490
50		500	500
51		510	510
52		520	520
53		530	530
54		540	540
55		550	550
56		560	560
57		570	570
58		580	580
59		590	590
60		600	600
61		610	610
62		620	620
63		630	630
64		640	640
65		650	650
66		660	660
67		670	670
68		680	680
69		690	690
70		700	700
71		710	710
72		720	720
73		730	730
74		740	740
75		750	750
76		760	760
77		770	770
78		780	780
79		790	790
80		800	800
81		810	810
82		820	820
83		830	830
84		840	840
85		850	850
86		860	860
87		870	870
88		880	880
89		890	890
90		900	900
91		910	910
92		920	920
93		930	930
94		940	940
95		950	950
96		960	960
97		970	970
98		980	980
99		990	990
100		1000	1000

 Sdg. Cup | Int. Bot'm Sample |

Character of Bottom

Thermom. $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading, Cor'd Temp.

Temp. Surf.	{	Time	}	Air	{	
		Time				

Density: Surf. fms.

Wind: Direction	Force
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
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Weather

Direction and Force of Current.	Surface	Bottom

Title _____

General Locality

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction	Distance
------------------	----------

Depth of Haul

Apparatus and Rig used

Time towing	h.	m.
1900	1	10
1905	1	15
1910	1	20
1915	1	25
1920	1	30
1925	1	35
1930	1	40
1935	1	45
1940	1	50
1945	1	55
1950	2	00
1955	2	05
2000	2	10
2005	2	15
2010	2	20
2015	2	25
2020	2	30
2025	2	35
2030	2	40
2035	2	45
2040	2	50
2045	2	55
2050	3	00
2055	3	05
2100	3	10
2105	3	15
2110	3	20
2115	3	25
2120	3	30
2125	3	35
2130	3	40
2135	3	45
2140	3	50
2145	3	55
2150	4	00
2155	4	05
2200	4	10
2205	4	15
2210	4	20
2215	4	25
2220	4	30
2225	4	35
2230	4	40
2235	4	45
2240	4	50
2245	4	55
2250	5	00
2255	5	05
2300	5	10
2305	5	15
2310	5	20
2315	5	25
2320	5	30
2325	5	35
2330	5	40
2335	5	45
2340	5	50
2345	5	55
2350	6	00
2355	6	05
2400	6	10
2405	6	15
2410	6	20
2415	6	25
2420	6	30
2425	6	35
2430	6	40
2435	6	45
2440	6	50
2445	6	55
2450	7	00
2455	7	05
2500	7	10
2505	7	15
2510	7	20
2515	7	25
2520	7	30
2525	7	35
2530	7	40
2535	7	45
2540	7	50
2545	7	55
2550	8	00
2555	8	05
2600	8	10
2605	8	15
2610	8	20
2615	8	25
2620	8	30
2625	8	35
2630	8	40
2635	8	45
2640	8	50
2645	8	55
2650	9	00
2655	9	05
2700	9	10
2705	9	15
2710	9	20
2715	9	25
2720	9	30
2725	9	35
2730	9	40
2735	9	45
2740	9	50
2745	9	55
2750	10	00
2755	10	05
2800	10	10
2805	10	15
2810	10	20
2815	10	25
2820	10	30
2825	10	35
2830	10	40
2835	10	45
2840	10	50
2845	10	55
2850	11	00
2855	11	05
2900	11	10
2905	11	15
2910	11	20
2915	11	25
2920	11	30
2925	11	35

Remarks:

Deck Officer _____ Recorder _____
11-16009

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm
Sample _____

Character of
Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ } Air {
Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of
Clouds _____ State of
Sea _____

Weather _____

Direction and Force { Surface _____
of Current. Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot } lbs.
 Lead }
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. _____ Amt. of Clouds _____ State of Sea _____
 Weather _____

 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____

 General Locality _____

 Position _____
 Chart used: No. _____ Ed'n _____
 Drift: Direction _____ Distance _____
 Depth of Haul _____
 Apparatus and Rig used _____

 Time towing _____ h. . . m.
 Remarks: _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No.		Date,	, 19	
Hydrog. }				
Sdg. Mch.		Reel	Shot }	Lbs.
			Lead }	
Turns	Cor'n	Depth	fms.	
Sdg. Cup		Amt. Bot'm Sample		
Character of Bottom				
Thermom. { Make		Cor'n { Instr.		
		Stem.		
Bottom Reading		Cor'd Temp.		
Temp. Surf. {		Air {		
Density: Surf. .		fms.		
Wind: Direction. .		Force		
Baromet.		Amt. of Clouds	State of Sea	
Weather				
.....				
Direction and Force { Surface				
of Current. { Bottom				
Tide				
.....				
General Locality				
Position				
Chart used: No. Ed'n				
Drift: Direction				
Distance				
Depth of Haul				
Apparatus and Rig used				
.....				
Time towing				
h. m.				
Remarks:				

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } *No.* *Date,* , 19
Hydrog. }
Sdg. Mch. *Reel* *Shot* }
Lead } *lbs.*
Turns *Cor'n* *Depth* *fms.*
Sdg. Cup *Amt. Bot'm*
Sample
Character of
Bottom
Thermom. { *Make* *Cor'n* { *Instr.*
{ *No.* { *Stem.*
Bottom Reading *Cor'd Temp.*
Temp. Surf. { *Time* } *Air* {
{ *Time* } {
Density: Surf. *fms.*
Wind: Direction *Force*
Baromet. *Amt. of* *State of*
Clouds *Sea*
Weather
Direction and Force { *Surface*
of Current. { *Bottom*
Tide
General Locality
Position
Chart used: No. *Ed'n*
Drift: Direction *Distance*
Depth of Haul
Apparatus and Rig used
Time towing *h.* *m.*
Remarks:

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. _____ Date, _____, 19
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs. _____

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm
Sample _____

Character of
Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of
Clouds _____ State of
Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
M. Down.		Up.		M.		M. Down.		Up.		M.
					0					
					100					
					200					
					300					
					400					
					500					
					600					
					700					
					800					
					900					
					1000					
					1100					
					1200					
					1300					
					1400					
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					2800					
					2900					
					3000					
					3100					
					3200					
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					3400					
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					3700					
					3800					
					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

$$\begin{array}{r}
 20.20 \overline{) 1.73} \\
 \underline{3} \\
 22 \\
 \underline{21} \\
 10
 \end{array}$$

$$\begin{array}{r}
 2.12 \\
 4.25
 \end{array}$$

TN
Track.

Abbreviations for use

Recording Book.

bk.....	black
bl.....	blue
br.....	brown
br-gn.....	brownish green
brk.....	broken
C.....	Clay
Co.....	Coral
crs.....	coarse
dk.....	dark
fne.....	fine
For.....	Foraminifera
G.....	Gravel
Glob.....	Globigerina ?
gn.....	green
gn-br.....	greenish-brown
gn-gy.....	greenish-gray
gy.....	gray
hrd.....	hard
lav.....	lava
M.....	Mud
Oz.....	Ooze
P.....	Pebbles
R.....	Rock
rky.....	rocky
S.....	Sand
Sh.....	Shells
sml.....	small
Sp.....	Specks
St.....	Stones
vol.....	volcanic

Fms in	Fms —
176	140
170	136
165	132
160	129
155	125
150	121
145	118
140	114
135	110
130	106
125	103
120	99
115	95
110	91
105	87
100	83
95	79
90	75
85	71
80	67
75	63
70	59
65	55
60	51
55	47
50	43
45	39
40	35
35	31
30	27
25	23
20	18
15	14
10	9
5	5

In case of an intermediate
give no. of fms. of cable out,
as before.